

10/756,620 and PCT US05/01711

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 9 Mar 2006 (20060309/PD)

FILE LAST UPDATED: 9 Mar 2006 (20060309/ED)

HIGHEST GRANTED PATENT NUMBER: US7010810

HIGHEST APPLICATION PUBLICATION NUMBER: US2006053519

CA INDEXING IS CURRENT THROUGH 7 Mar 2006 (20060307/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 9 Mar 2006 (20060309/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

=> s aluminum and zirconium

624051 ALUMINUM

82705 ZIRCONIUM

L1 55378 ALUMINUM AND ZIRCONIUM

=> s antiperspirant?

L2 3682 ANTIPERSPIRANT?

=> s l1 and l2

L3 1102 L1 AND L2

=> s zirconium glycine compound

82705 ZIRCONIUM

89338 GLYCINE

711316 COMPOUND

L4 1 ZIRCONIUM GLYCINE COMPOUND  
(ZIRCONIUM (W) GLYCINE (W) COMPOUND)

=> d ibib abs

L4 ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 2005:208458 USPATFULL

TITLE: Method of making aluminum-zirconium antiperspirant of enhanced efficacy

INVENTOR(S): Li, Zijun, Westfield, NJ, UNITED STATES

NUMBER KIND DATE

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PATENT INFORMATION: US 2005180934 A1 20050818

APPLICATION INFO.: US 2004-756620 A1 20040217 (10)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Arthur J. Plantamura, c/o General Chemical, 90 E.

Halsey Road, Parsippany, NJ, 07054, US

NUMBER OF CLAIMS: 11  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Page(s)  
LINE COUNT: 364

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel efficacious and less irritant aluminum-zirconium antiperspirant composition is provided by the addition of a small amount of  $\text{AlCl}_3$  and/or HCl to the activated aluminum component. After the heating of diluted basic aluminum chlorohydrate solution, cooling to room temperature, mixing with small amount of  $\text{AlCl}_3$  or HCl and then reacting with zirconium glycine complex, an aluminum-zirconium salt is produced with a maximum amount of depolymerization aluminum and zirconium species. The addition of a small amount of  $\text{AlCl}_3$  or HCl to the diluted and activated aluminum chlorohydrate solution accelerates the depolymerization of the activated ACH solution, and upon the addition of zirconium glycinate the solution is further depolymerized and results in the formation of less polymerized zirconium species.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s zirconium glycine?  
82705 ZIRCONIUM  
90583 GLYCINE?  
L5 124 ZIRCONIUM GLYCINE?  
(ZIRCONIUM(W)GLYCINE?)

=> d his

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FILE 'USPATFULL' ENTERED AT 13:02:59 ON 13 MAR 2006

L1 55378 S ALUMINUM AND ZIRCONIUM  
L2 3682 S ANTIPERSPIRANT?  
L3 1102 S L1 AND L2  
L4 1 S ZIRCONIUM GLYCINE COMPOUND  
L5 124 S ZIRCONIUM GLYCINE?

=> s l3 and l5  
L6 111 L3 AND L5

=> s amino acid?  
355359 AMINO  
868418 ACID?  
L7 177068 AMINO ACID?  
(AMINO(W)ACID?)

=> s solid?(p)activated  
1261051 SOLID?  
599856 ACTIVATED  
L8 39661 SOLID?(P)ACTIVATED

=> s l8 and l7  
L9 10441 L8 AND L7

=> s l9 and l6  
L10 6 L9 AND L6

=> d 1-6 ibib abs

L10 ANSWER 1 OF 6 USPATFULL on STN

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ACCESSION NUMBER: 2005:305302 USPATFULL  
TITLE: High pH **antiperspirant** compositions of enhanced efficacy  
INVENTOR(S): Li, Zijun, Westfield, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005265939	A1	20051201
APPLICATION INFO.:	US 2004-857493	A1	20040528 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	GENERAL CHEMICAL PERFORMANCE PRODUCTS LLC., 90 EAST HALSEY ROAD, PARSIPPANY, NJ, 07054, US		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Page(s)		
LINE COUNT:	703		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Aluminum and aluminum-zirconium antiperspirant** compositions of enhanced efficacy and a pH value of at least 3.5 are provided that are made by reaction with insoluble, strongly alkaline strontium or calcium salts. The **aluminum and aluminum-zirconium** strontium or calcium compositions show high pH values with characteristic HPLC Band III to Band II ratios of at least 0.5. The basic **aluminum** halohydrate (or nitrate) solutions typically have **aluminum** to anion ratio of less than 1.9. The solution compositions are stable with respect to both HPLC Band III to Band II ratio and viscosity at concentrations of about 20% to about 40% by weight of anhydrous solid. The solid state compositions form hard sticks with low irritation, at low metal to chloride ratios of about 0.9 to about 1.2.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2005:208458 USPATFULL  
TITLE: Method of making **aluminum-zirconium antiperspirant** of enhanced efficacy  
INVENTOR(S): Li, Zijun, Westfield, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005180934	A1	20050818
APPLICATION INFO.:	US 2004-756620	A1	20040217 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Arthur J. Plantamura, c/o General Chemical, 90 E. Halsey Road, Parsippany, NJ, 07054, US		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Page(s)		
LINE COUNT:	364		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel efficacious and less irritant **aluminum-zirconium antiperspirant** composition is provided by the addition of a small amount of  $\text{AlCl}_3$  and/or  $\text{HCl}$  to the activated **aluminum** component. After the heating of diluted basic **aluminum** chlorohydrate solution, cooling to room temperature, mixing with small amount of  $\text{AlCl}_3$  or  $\text{HCl}$  and then reacting with **zirconium glycine** complex, an **aluminum-zirconium** salt is produced with a maximum amount of depolymerization **aluminum** and **zirconium** species. The

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addition of a small amount of AlCl<sub>3</sub> or HCl to the diluted and activated **aluminum** chlorohydrate solution accelerates the depolymerization of the activated ACH solution, and upon the addition of **zirconium** glycinate the solution is further depolymerized and results in the formation of less polymerized **zirconium** species.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2004:30613 USPATFULL

TITLE: Method of making enhanced efficacy  
**antiperspirant** actives

INVENTOR(S): Lee, Wilson, Bloomfield, NJ, UNITED STATES  
Tang, Xiaozhong, Bridgewater, NJ, UNITED STATES  
Brahms, John, Piscataway, NJ, UNITED STATES  
Cush, James, JR., Washington Township, NJ, UNITED STATES  
Esposito, Anthony, Roselle, NJ, UNITED STATES  
Johansson, Marie, Watchung, NJ, UNITED STATES  
PATENT ASSIGNEE(S): Colgate-Palmolive Company (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004022750	A1	20040205
APPLICATION INFO.:	US 2002-228328	A1	20020826 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-597322, filed on 19 Jun 2000, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Patent Department, Colgate-Palmolive Company, 909 River Road, P.O. Box 1343, Piscataway, NJ, 08855-1343		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1421		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention comprises: (1) a wet grinding method for enhancing the activity of an **aluminum** or an **aluminum/zirconium** salt without the dilution and heating traditionally required wherein the enhancement is described as forming a salt wherein the amount of smaller **aluminum** species as represented by Peak 4+Peak 5 is increased by an amount of at least 10% over the parent salt; and, if **zirconium** is present, the area of Peak 1 in the parent salt is at least 10% greater than the area of Peak 1 after grinding; (2) an enhanced **aluminum** or **aluminum/zirconium** salt itself; and (3) anhydrous (less than 4% water excluding waters of hydration for the enhanced salt) **antiperspirant** and/or deodorant products made with the salts described in (2).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2002:19049 USPATFULL

TITLE: **Antiperspirant** actives from a glass form and products made therewith

INVENTOR(S): Cai, Heng, Yardley, PA, United States  
Tang, Xiaozhong, Bridgewater, NJ, United States  
Fan, Aixing, Bridgewater, NJ, United States  
PATENT ASSIGNEE(S): Colgate-Palmolive Company, New York, NY, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6342210 B1 20020129  
 APPLICATION INFO.: US 2001-839659 20010420 (9)  
 DOCUMENT TYPE: Utility  
 FILE SEGMENT: GRANTED  
 PRIMARY EXAMINER: Dodson, Shelley A.  
 LEGAL REPRESENTATIVE: Miano, Rosemary M.  
 NUMBER OF CLAIMS: 34  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)  
 LINE COUNT: 1886  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for forming micronized **antiperspirant** salts is disclosed wherein the method comprises the steps of: (1) forming an aqueous salt solution of a parent salt wherein the solution has a glycol content of less than 5 weight %; (2) pouring the salt solution onto a bounded flat surface; (3) evaporating the solvent from the salt solution so as to form a glass; (4) breaking up the glass using one or more steps to form particles having an average size in the range of 0.5-2.00 cm.sup.2; (5) mixing the particles from step (4) with a non-aqueous liquid vehicle in which the salt is not appreciably soluble and subjecting the mixture to an intermediate grinding process to form a suspension with particles having an average size of less than 200 microns; and (6) grinding the mixture from step (5) at a temperature in the range of 20-70 degrees C. without added water or external heating being required so that the particles in the suspension have an average particle size of less than or equal to 20 microns.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 6 USPATFULL on STN

ACCESSION NUMBER: 94:24454 USPATFULL  
 TITLE: Direct process for the preparation of activated **antiperspirant** salts  
 INVENTOR(S): Katsoulis, Dimitris E., Midland, MI, United States  
 Carmody, Walter J., Port Jervis, NY, United States  
 PATENT ASSIGNEE(S): Somerville Technology Group, Inc., Huguenot, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5296623		19940322
APPLICATION INFO.:	US 1991-765796		19910926 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1990-484288, filed on 26 Feb 1990, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Dees, Jose G.		
ASSISTANT EXAMINER:	Nazarlo, Porfurio		
LEGAL REPRESENTATIVE:	Glynn, Kenneth P.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1,3,5		
LINE COUNT:	631		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing activated metal salts useful in **antiperspirant** compositions is disclosed. The method produces the salt through an acid base reaction wherein an acid is reacted with a metal in basic form. Preferred metals include **aluminum** and **zirconium**. Activate **aluminum-zirconium** hydrohalide and activated **aluminum-zirconium-amino acid** salts can also be produced by the method of this invention.

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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 6 USPATFULL on STN

ACCESSION NUMBER: 93:54504 USPATFULL

TITLE: Process for preparing concentrated **aluminum-zirconium** solutions

INVENTOR(S): Carmody, Walter J., Port Jervis, NY, United States

PATENT ASSIGNEE(S): Somerville Technology Group, Inc., Somerset, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5225187		19930706
APPLICATION INFO.:	US 1991-655602		19910215 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Robinson, Allen J.		
ASSISTANT EXAMINER:	Pak, John D.		
LEGAL REPRESENTATIVE:	Glynn, Kenneth P.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
LINE COUNT:	393		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention pertains to a process for preparing concentrated **aluminum-zirconium-glycine** solutions by forming a **zirconium** chloride complex, adding glycine to the complex and forming coordinate bonds between the **zirconium** chloride complex and the glycine and blending the resulting mixture with an aqueous **aluminum** chlorohydrate solution. Solutions which contain 45-50% solids can be produced. The solutions have shown to be stable at room temperature for greater than 3 months.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

LINE COUNT: 558

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Basic **aluminum** halides and nitrates having enhanced **antiperspirant** efficacy are produced by reacting (a) **aluminum** powder, (b) an **aluminum** halide or nitrate solution and (c) water at a temperature greater than about 85° C. This reaction is maintained until reaction products having an Al:anion ratio of about 1.2 to 1.8 and a solution solids concentration of about 30-40 weight % on an anhydrous basis are obtained. The products are characterized as having a Size Exclusion Chromatography Test Band having a relative retention time corresponding to **Band II** of a Standard Basic **Aluminum** Chloride Size Exclusion Chromatogram and a **Band II** percent **aluminum** value of at least about 50% and a **Band III** percent **aluminum** value of less than 20%.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 9 USPATFULL on STN

ACCESSION NUMBER: 1998:17052 USPATFULL

TITLE: Basic **aluminum** and **aluminum/zirconium antiperspirants** and method of making the same

INVENTOR(S): Parekh, Jawahar C., Livingston, NJ, United States  
Rubino, Andrew M., New Providence, NJ, United States

PATENT ASSIGNEE(S): Reheis Inc., Berkley Heights, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5718876		19980217
APPLICATION INFO.:	US 1996-635290		19960419 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1990-579902, filed on 7 Sep 1990, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Dodson, Shelley A.		
LEGAL REPRESENTATIVE:	Panitch Schwarze Jacobs & Nadel, P.C.		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
LINE COUNT:	517		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Basic **aluminum** halides and nitrates having enhanced **antiperspirant** efficacy are produced by reacting (a) **aluminum** powder, (b) an **aluminum** halide or nitrate solution and (c) water at a temperature greater than about 85° C. This reaction is maintained until reaction products having an Al:anion ratio of about 1.2 to 1.8 and a solution solids concentration of about 30-40 weight % on an anhydrous basis are obtained. The products are characterized as having a Size Exclusion Chromatography Test Band having a relative retention time corresponding to **Band II** of a Standard Basic **Aluminum** Chloride Size Exclusion Chromatogram and a **Band II** percent **aluminum** value of at least about 50% and a **Band III** percent **aluminum** value of less than 20%.

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NEWS	10 JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
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NEWS	13 JAN 30	Saved answer limit increased
NEWS	14 JAN 31	Monthly current-awareness alert (SDI) frequency added to TULSA
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NEWS	17 FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	18 FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	19 FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	20 FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS	21 FEB 28	TOXCENTER reloaded with enhancements
NEWS	22 FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	23 MAR 01	INSPEC reloaded and enhanced
NEWS	24 MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS EXPRESS	FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT <a href="http://download.cas.org/express/v8.0-Discover/">http://download.cas.org/express/v8.0-Discover/</a>	
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NEWS	25	MAR 08	X.25 communication option no longer available after June 2006
NEWS EXPRESS			FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT <a href="http://download.cas.org/express/v8.0-Discover/">http://download.cas.org/express/v8.0-Discover/</a>
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